PALENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 2203444-WO0	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2006/037714	International filing date (day/month/year) 27 September 2006 (27.09.2006)	Priority date (day/month/year) 28 September 2005 (28.09.2005)	
International Patent Classification (8 See relevant information in Form	th edition unless older edition indicated) PCT/ISA/237		
Applicant CYPRESS BIOSCIENCE, INC.		1974 Daniel	

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications	relating to the following items:				
	Box No. I	Basis of the report				
	Вох №. П	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.		communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				
		Date of issuance of this report				

	Date of issuance of this report 01 April 2008 (01.04.2008)		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Ellen Moyse		
Facsimile No. +41 22 338 82 70	e-mail: pt02.pct@wipo.int		

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY					
To: S. Peter Ludwig Darby & Darby PC P.O. Box 5257	Num	PCT			
New York, New York 10150-5257		ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY			
		(PCT Rule 43bis.1)			
	Date of mailing				
	(day/month/year)	23 AUG 2007			
Applicant's or agent's file reference 2203444-WO0		FOR FURTHER ACTION See paragraph 2 below			
International application No. Interna	tional filing date (day/month/year)	Priority date (day/month/year)			
	eptember 2006 (27.09.2006)	28 September 2005 (28.09.2005)			
International Patent Classification (IPC) or both in IPC(8) - A61K31/165 (2007.01) USPC - 514/619	ational classification and IPC				
Applicant Cypress Bioscience, Inc.					
1. This opinion contains indications relating to	the following items:				
Box No. 1 Basis of the opinion					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invent	ion				
	der Rule 43bis.1(a)(i) with regard to nove ons supporting such statement	elty, inventive step or industrial applicability;			
Box No. VI Certain documents cite	d				
Box No. VII Certain defects in the in	nternational application	lication			
Box No. VIII Certain observations or	the international application				
2. FURTHER ACTION		·			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the ISA/US Date of	f completion of this opinion	Authorized officer:			
Mail Stop PCT, Attn: ISA/US		Lee W. Young			
P.O. Box 1450, Alexandria, Virginia 22313-1450	April 2007 (29.04.2007)	PCT Helpdesk: 571-272-4300			
Facsimile No. 571-273-3201	·	PCT OSP: 571-272-7774			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US06/37714

Во	k No. I	Basis of this opinion
1.	With ro	the international application in the language in which it was filed a translation of the international application into
2.	claime	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the dinvention, this opinion has been established on the basis of: e of material a sequence listing table(s) related to the sequence listing
	b. for	mat of material on paper in electronic form
	c. tim	contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additio	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US06/37714

citations and explanations supporting such statement			,,	
1.	Statement			
	Novelty (N)	Claims	1-20	YES
		Claims	none	NO
	Inventive step (IS)	Claims	none	YES
		Claims	1-20	NO NO
	Industrial applicability (IA)	Claims	1-20	YES
		Claims	none	NO

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability:

2. Citations and explanations:

Box No. V

Claims 1-20 lack an inventive step under PCT Article 33(3) as being obvious over US 2004/0228830 A1 to Hirsh et al. (hereinafter 'Hirsh').

As per claim 1, 2, and 3, directed to a method of providing long-term treatment of fibromyalgia syndrome, Hirsh discloses that milnacipran which is a norepinephrine (NE) and serotonin (5-HT) reuptake inhibitor (NSRI) (para [0004]) could produce a therapeutic effect over fibromyalgia syndrome patients (para [0017]) and that Patients received either milnacipran 75-100 mg/day twice daily for 8 weeks (para [0007]). It would have been obvious for a person having ordinary skills in the art to administer milnacipran, an NSRI and a dual re-uptake inhibitor (DRI), to provide a long-term treatment for fibromyalgia.

As per claim 4, directed to the method of claims 3, respectively, it is obvious for reasons set forth for claim 3, and further because Hirsh discloses that patients received either milnacipran 75-100 mg/day twice daily (para [0007]). It would have been obvious for a person having ordinary skills in the art to further specify that the milnacipran is administered in a dose between about 25 mg per day and about 400 mg per day.

As per claims 5, 6, directed to the method of claim 4, respectively, they are obvious for reasons set forth for claim 4, and further because Hirsh discloses that In a double-blind, randomized, multicenter clinical study, patients received 100 mg/day milnacipran or 200 mg/day (para [0007]). It would have been obvious for a person having ordinary skills in the art to further specify that the milnacipran is administered in a dose of about 100 mg per day or 200 mg per day.

As per claim 7, directed to the method of claim 1, it is obvious for reasons set forth for claim 1, and further because it would have required only ordinary knowledge in the art to administer DRI for at least 6 months to provide a longer-term treatment and durable effect for fibromyalgia.

As per claims 8 and 18, they are obvious for reasons set forth for claim 1, and further because Hirsh discloses that milnacipran could provide relief from pain (para [0017]) and that in one of the early clinical trials, milnacipran dosage of 200 mg/day was superior to the lower doses (para [0010]) and that the incidence of certain adverse events increases with dosage, including nausea, vomiting, sweating, hot flashes, palpitations, tremor, anxiety, dysuria, and insomnia (para [0008]). It would have been obvious for a person having ordinary skills in the art to administer about 200 mg per day of milnacipran for thetreatment of acute pain so as to get better therapeutic effect and then decrease the dose of milnacipran to about 100 mg per day when the acute pain has been treated to decrease the incidence of certain adverse events and administer about 100 mg per day of milnacipran to the patient for at least three months for the long-term treatment of fibromyalgia and its symptoms.

As per claim 9, directed to the method of claim 1, it is obvious for reasons set forth for claim 1, and further because Hirsh discloses that milnacipran can be administered adjunctively with other active compounds such as analgesics, antidepressants, antiepileptics, antihistamines, antimigraine drugs, antimuscarinics, sedatives, hypnotics, antipsychotics, bronchodilators, anti asthma drugs, cardiovascular drugs, corticosteroids, dopaminergics, electrolytes, gastro-intestinal drugs, muscle relaxants, nutritional agents, vitamins, parasympathomimetics, stimulants, anorectics and anti-narcoleptics (para [0086]).

As per claim 10, directed to the method of claim 9, it is obvious for reasons set forth for claim 9, and further because Hirsh discloses that "[s]pecific examples of compounds that can be adjunctively administered with milnacipran include, but are not limited to, amphetamine, caffeine clonidine codeine modafinil, morphine, gabapentin, propranolol, pregabalin, pramipexole, sibutramine, tizanidine, tramado1, and isomers, salts, and combinations thereof." (para [0087])

As per claim 11, it is obvious for reasons set forth for claims 1 and 8, and further because it would have been obvious for a person having ordinary skills in the art to administer a dual re-uptake inhibitor (DRI) to the patient for at least three months to provide long-term treatment of a pain symptom associated with fibromya1gia syndrome in a patient.

As per claims 12, 13, 14, 15, 16, 17, they are obvious for reasons set forth for claim 11, and, individually for claims 2, 3, 4, 5, 6, 7, respectively.

--Please See Continuation Sheet--

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US06/37714

Box No. VII	Certain defects in the international application
The fallowing	defects in the form or contents of the international application have been noted:
C;aims 12-18 a	are objected to because they are identical to claims 2-8, respectively.
Claim 13 was s Claim 14 was s Claims 15 and	searched as being dependent on claim 11 instead of claim 1; searched as being dependent on claim 12 instead of claim 2; searched as being dependent on claim 13 instead of claim 3; 16 were searched as being dependent on claim 14 instead of claim 4; searched as being dependent on claim 11 instead of claim 1.
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US06/37714

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In case the space in any of the preceding boxes is not sufficient.

As per claim 19, directed to the method of claim 11, comprising adjunctively administering a second active compound, wherein the second active compound is selected from the group consisting of an antidepressant, an analgesic, a muscle relaxant, an anorectic, a stimulant, an antiepileptic drug, a beta blocker, a sedative, a hypnotic and combinations thereof, Hirsh discloses that "milnacipran can be administered adjunctively with other active compounds such as analgesics, antidepressants, antiepileptics, antihistamines, antimigraine drugs, antimuscarinics, sedatives, hypnotics, antipsychotics, bronchodilators, anti asthma drugs, cardiovascular drugs, corticosteroids, dopaminergics, electrolytes, gastro-intestinal drugs, muscle relaxants, nutritional agents, vitamins, parasympathomimetics, stimulants,

As per claim 20, directed to the method of claim 19, wherein the second active compound is selected from the group consisting ofmodafinil, XP13512, gabapentin, pregabalin, pramipexole, 1DOPA, amphetamine, tizanidine, clonidine, tramadol, morphine, tricyclic combinations thereof, Hirsh discloses that "[s]pecific examples of compounds that can be adjunctively administered with milnacipran

anorectics and anti-narcoleptics." (para [0086]) antidepressants, codeine, cambamazepine, sibutramine, valium, trazodone, caffeine, nicergoline, bifemelane, propranolol, atenolol and include, but are not limited to, amphetamine, caffeine clonidine codeine modafinil, morphine, gabapentin, propranolol, pregabalin, pramipexole, sibutramine, tizanidine, tramado1, and isomers, salts, and combinations thereof." (para [0087]) Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.